C-A OPERATIONS PROCEDURES MANUAL

4.120.102.g NASA National Space Radiation Laboratory (NSRL)
(Peer 27) Power Up Tests

Attachment

C-A-OPM Procedures in which this Attachment is used.		
4.120.102		

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials
_____	_____	_____	_____
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Approved:_____*Signature on File*_____ _____
Collider-Accelerator Department Chairman   Date

V. Castillo

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title:_____ **Checksum:** _____

Division B Software Filename and Checksum: Title:_____ **Checksum:** _____

Initial testing complete:

Test Team Leader's Name (Print): _____   **Life Number:** _____

Test Team Leader's Name (Sign): _____   **Date:** _____/____/_____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader's Name (Print): _____   **Life Number:**_____

Test Team Leader's Name (Sign): _____   **Date:** _____/____/_____

Test results reviewed by:

Safety Section Head's Name (Print):_____   **Life Number:** _____

Safety Section Head's Name (Sign):_____   **Date:** _____/____/_____

Test results accepted by Radiation Safety Committee:

RSC Member's Name (Print):_____   **Life Number:** _____

RSC Member's Name (Sign):_____   **Date:** _____/____/_____

1.1 Test Division A for Power-up conditions

	PLACE	**Peer 27** in **CA, Mode 16**	
☐	**VERIFY**	**Peer 27** is in **CA**	**MODE 16**
	RESET	**Peer 27 gates:** BGE1, BGI1, BGI2 and BGE2	
☐	**VERIFY**	**Peer 27 gates:** ☐ BGE1, ☐ BGI1, ☐ BGI2 and ☐ BGE2 are	**RESET**
	FORCE	**Sweep** of Zone **NSRL-Z1,** Zone **NSRL-Z2** and Zone **NSRL-Z3**	
☐	**VERIFY**	Zone **NSRL-Z1** ☐**,** Zone **NSRL-Z2** ☐ and Zone **NSRL-Z3** ☐	**SWEPT**
	TURN OFF	**AC Power** to the **Peer 27 Division A PLC**	
☐	**VERIFY**	**AC Power** to the **Peer 27 Division A PLC** is	**TURNED OFF**
	WAIT	**30 Seconds**	
	TURN ON	**AC Power** to the **Peer 27 Division A PLC**	
☐	**VERIFY**	**AC Power** to the **Peer 27 Division A PLC** is	**TURNED ON**
☐	**VERIFY**	**MCR** sees **Peer 27 Restricted Access** light	**OFF**
	RESET	**Div A** Hardware **Faults**	
☐	**VERIFY**	**Div A** Hardware **Faults** are	**RESET**
☐	**VERIFY**	**MCR** sees **Div A Critical Devices: Z1PCD** ☐**, Z2PCD** ☐**, Z3PCD** ☐**, Z1RBCD** ☐ and **Z2RBCD** ☐	**SAFE**
☐	**VERIFY**	**MCR** sees **Peer 27 Div A gates:** ☐ BGE1, ☐ BGI1, ☐ BGI2 and ☐ BGE2 are	**NOT RESET**
☐	**VERIFY**	**MCR** sees **Peer 27 Div A Crash Systems** are	**NOT CRASHED**
☐	**VERIFY**	**MCR** sees **Peer 27 Div A:** Zone **NSRL-Z1,** Zone **NSRL-Z2** and Zone **NSRL-Z3**	**NOT SWEPT**

☐ **Check for Acceptance of Test of Division A for Power-up conditions**

1.2 **Test Division B for Power-up conditions**

PLACE	**Peer 27** in **CA, Mode 16**	
☐ **VERIFY**	**Peer 27** is in **CA**	**MODE 16**

RESET **Peer 27 gates:** BGE1, BGI1, BGI2 and BGE2

☐ **VERIFY** **Peer 27 gates:** ☐ BGE1, ☐ BGI1, ☐ BGI2 and ☐ BGE2 are

RESET

FORCE **Sweep** of Zone **NSRL-Z1,** Zone **NSRL-Z2** and Zone **NSRL-Z3**

☐ **VERIFY** Zone **NSRL-Z1** ☐**,** Zone **NSRL-Z2** ☐ and Zone **NSRL-Z3** ☐ **SWEPT**

TURN OFF **AC Power** to the **Peer 27 Division B PLC**

☐ **VERIFY** **AC Power** to the **Peer 27 Division B PLC** is **TURNED OFF**

WAIT **30 Seconds**

TURN ON **AC Power** to the **Peer 27 Division B PLC**

☐ **VERIFY** **AC Power** to the **Peer 27 Division B PLC** is **TURNED ON**

☐ **VERIFY** **MCR** sees **Peer 27 Restricted Access** light **OFF**

RESET **Div B** Hardware **Faults**

☐ **VERIFY** **Div B** Hardware **Faults** are **RESET**

☐ **VERIFY** **MCR** sees **Div B Critical Devices: Z1PCD** ☐**, Z2PCD** ☐**, Z3PCD** ☐**, Z1RBCD** ☐ and **Z2RBCD** ☐ **SAFE**

☐ **VERIFY** **MCR** sees **Peer 27 Div B gates:** ☐ BGE1, ☐ BGI1, ☐ BGI2 and ☐ BGE2 are **NOT RESET**

☐ **VERIFY** **MCR** sees **Peer 27 Div B Crash Systems** are **NOT CRASHED**

☐ **VERIFY** **MCR** sees **Peer 27 Div B:** Zone **NSRL-Z1,** Zone **NSRL-Z2** and Zone **NSRL-Z3** **NOT SWEPT**

☐ **Check for Acceptance of Test of Division B for Power-up conditions**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

     Date: _____/_____/_____

TTL: Sign for completion of final testing: _____

     Date: _____/_____/_____